

Cube Game

Who's With Whom?

Objective:

Match three representations of a linear growing pattern in the fewest number of rolls.

Directions:

1. Print the net for each of the cubes onto card stock then assemble the three cubes.
2. Player A rolls all three cubes. If the top faces of the cubes represent the same linear growing pattern, Player A wins. Otherwise, Player A selects one of the three cubes and puts it to the side. The top face of this cube is the targeted pattern.
3. Player B selects one of the two remaining cubes and rolls it until its top face has a representation of the targeted pattern. The number of rolls it takes to do this is Player B's score.
4. Player A rolls the remaining cube until its top face has a representation of the targeted pattern. If Player A takes fewer rolls than Player B (from step 3) then Player A wins.

An answer key is on the next page.

Additional Suggestions

- 1) Roll one of the cubes. Find the other two representations of the pattern on the remaining cubes.
- 2) Print a copy of the nets for each cube onto card stock. Cut the 18 cube faces to create a set of cards. Mix up the cards and sort into groups where each group has three different representations of the same linear growing pattern.

Answer Key:

Pictorial Representation	Graphical Representation	Pattern Rule Representation
1	F	y
2	E	u
3	D	v
4	A	x
5	B	w
6	A	z





